Contents

Volume 43, No. 1, January 1996

The Two-Signal Model and 'Self'-Reactivity: Are They Really Compatible? A Reply to Faro & Carneiro. *M. Cohn* 1

COMMENTARY. A Commentary on Cohn's Reply. *J. Faro & J. Carneiro* 6

A Reply to Faro & Carneiro. *M. Cohn* 8

BASIC IMMUNOLOGY. Histaminergic Regulation of Natural Killer Cell-Mediated Clearance of Tumour Cells in Mice. *A. Asea, S. Hermodsson & K. Hellstrand* 9

Antibody-Dependent Cellular Cytotoxic Activity of Cells in the Rat Metrial Gland in Pregnancy. *S. Peel & I. J. Stewart* 16

The Influence of Follicular Dendritic Cells on B-Cell Proliferation Depends on the Activation of B Cells and the Mitogen Used. *A. Bosseloir, F. Bouzahzah, Th. Defrance, E. Heinen & L. J. Simar* 23

Fcγ Receptor Expression on Sheep Afferent Lymph Dendritic Cells and Rapid Modulation of Cell Surface Phenotype Following Fcγ Receptor Engagement *In Vitro* and *In Vivo*. *S. N. Coughlan, G. D. Harkiss, L. Dickson & J. Hopkins* 31

Expression of MHC Class II Molecules on Human Monocytes is Regulated Independently from Each Other after Phagocytosis of Bacteria. *M. Wuorela, S. Jalkanen, P. Toivanen & K. Granfors* 39

Acquisition of CD40 Expression During Murine B-Cell Differentiation. *A. Grandien, A. Brás & C. Martinez-A* 47

Oral Tolerization Leads to Active Suppression and Bystander Tolerance in Adult Rats while Anergy Dominates in Young Rats. *B. S. Lundin, U. I. H. Dahlgren, L. Å. Hanson & E. Telemo* 56

Effect of 12 Neutralizing Anti-Cytokine Antibodies on *In Vitro* Activation of B-Cells. Interleukin-12 is Required by B1a but not B2 Cells. *B. M. Jones* 64

$CD5^+$B Cells: Differential Capping and Modulation of IgM and CD5. *C. Jamin, P. M. Lydyard, R. Le Corre & P. Y. Youinou* 73

CLINICAL IMMUNOLOGY. Presynaptic Membrane Receptor-Reactive T Lymphocytes in Myasthenia Gravis. *Q. Yi, R. Pirskanen & A. K. Lefvert* 81

Chagasic Patients Lack CD28 Expression on Many of Their Circulating T Lymphocytes. *W. O. Dutra, O. A. Martins-Filho, J. R. Cançado, J. C. Pinto-Dias, Z. Brener, G. Gazzinelli, J. F. Carvalho & D. G. Colley* 88

IFN-γ Restores HIV- and Non-HIV-Specific Cell Mediated Immune Response *In Vitro* and Its Activity is Neutralized by Antibodies from Patients with AIDS. *M. A. De Francesco, A. Caruso, F. Dima, A. Cantalamessa, A. D. Canaris, S. Folghera, S. Fiorentini, G. Flamminio, S. Licenziati, L. Peroni, Jing Gao, G. Garotta & A. Turano* 94

HLA-B27-Restricted Cytotoxic T Lymphocyte Responses to Arthritogenic Enterobacteria or Self-Antigens are Dominated by Closely Related TCRBV Gene Segments. A Study in Patients with Reactive Arthritis. *R. Duchmann, E. May, B. Ackermann, B. Goergen, K.-H. Meyer zum Büschenfelde & E. Märker-Hermann* 101

Limited T-Cell Receptor V Gene Usage in Inclusion Body Myositis. *I.-M. Fyhr, A.-R. Moslemi, A. Tarkowski, C. Lindberg & A. Oldfors* 109

Serum Antibodies from Patients with Primary Sjögren's Syndrome and Systematic Lupus Erythematosus Recognize Multiple Epitopes on the La(SS-B) Autoantigen Resembling Viral Protein Sequences. *L. R. Haaheim, A.-K. Halse, R. Kvakestad, B. Stern, Ø. Normann & R. Jonsson* 115

SHORT PAPER. Interleukin 10 Release During Endotoxaemia in Chimpanzees: Role of Platelet-Activating Factor and Interleukin 6. *T. van der Poll, J. Jansen, M. Levi, H. ten Cate, C. E. Hack, L. A. Aarden, J. W. ten Cate & S. J. H. van Deventer* 122

Volume 43, No. 2, February 1996

BASIC IMMUNOLOGY. Nordihydroguaiaretic Acid Blocks IL-2-Independent Lymphocyte Proliferation and Enhances Responses to PPD. *A. H. Esa & P. J. Converse* 127

Expression and Characterization of a Divalent Chimeric Anti-Human CD3 Single Chain Antibody. *Shenglin Ma, J. Thompson, Huaizhong Hu & D. M. Neville Jr* 134

Conformation of the T-Cell Antigen Receptor-β Chain C-Domain Contributes to $V\beta_3$ Epitope Recognition by Monoclonal Antibody KJ25. *Zhan-Guo Li, O. Kemp, T. Longhurst & N. Manolios* 140

Sharing of Four DR-β Sequence Motifs Between HLA-DRB1*1601 and DRB1*1101 Correlates with Frequent Degenerate T-Cell Recognition of HA306–320 Peptide Complexed to these Two Molecules. *D. Zeliszewski, I. Dorval, J. J. Golvano, A. Prevost, F. Borras-Cuesta & G. Sterkers* 146

Role of Monocytes in the Up-Regulation of the Early Activation Marker CD69 on B and T Murine Lymphocytes Induced by Microbial Mitogens. *M. Vilanova, D. Tavares, P. Ferreira, L. Oliveira, A. Nóbrega, R. Appelberg & M. Arala-Chaves* 155

Kinetics, Localization and Isotype Profile of Antibody Responses to Immune Stimulating Complexes (Iscoms) Containing Human Influenza Virus Envelope Glycoproteins. *A. Sjölander, K. Lövgren Bengtsson, M. Johansson & B. Morein* 164

Both Murine SAA_1 and SAA_2 Yield AA Amyloid in Alveolar Hydatid Cyst-Infected Mice. *A. W. Bell, S. L. Chan, D. Marcantonio & Z. Ali-Khan* 173

Intranasal Inoculation of *Bordetella Bronchiseptica* in Mice Induces Long-Lasting Antibody and T-Cell Mediated Immune Responses. *P. Gueirard, P. Minoprio & N. Guiso* 181

Distribution and Nucleotide Biases of the Somatic Hypermutations in the Functional Kappa Light Chain Gene of a Human Follicular Lymphoma Line. *Hongyan Wu & M. Kaartinen* 193

Long-Lasting Immune Response Induced by Recombinant Bacillus Calmette-Guérin (BCG) Secretion System. *N. Wada, N. Ohara, M. Kameoka, Y. Nishino, S. Matsumoto, T. Nishiyama, M. Naito, H. Yukitake, Y. Okada, K. Ikuta & T. Yamada* 202

Chicken Joint Amyloid Protein is of the AA-type. I. Characterization of the Amyloid Protein. *W. J. M. Landman, K. Sletten, C. A. M. Koch, P. C. J. Tooten & E. Gruys* 210

CLINICAL IMMUNOLOGY. Experimental Human *Plasmodium Falciparum* Infections: Longitudinal Analysis of Lymphocyte Responses with Particular Reference to $\gamma\delta$ T Cells. *C. M. Rzepczyk, S. Stamatiou, K. Anderson, A. Stowers, Q. Cheng, A. Saul, A. Allworth, J. McCormack, M. Whitby, C. Olive & G. Lawrence* 219

The Effect of Strenuous Exercise, Calorie Deficiency and Sleep Deprivation on White Blood Cells, Plasma Immunoglobulins and Cytokines. *A. Bøyum, P. Wiik, E. Gustavsson, O. P. Veiby, J. Reseland, A.-H. Haugen & P. K. Opstad* 228

Reminder 236

Erratum 237

Volume 43, No. 3, March 1996

BASIC IMMUNOLOGY. Differences in the Germinal Centres of Palatine Tonsils and Lymph Nodes. *E. F. Brachtel, M. Washiyama, G. D. Johnson, K. Tenner-Racz, P. Racz & I. C. M. MacLennan* 239

Docosahexaenoic and Eicosapentaenoic Acids Inhibit Human Lymphoproliferative Responses *In Vitro* but not the Expression of T Cell Surface Activation Markers. *B. Khalfoun, G. Thibault, M. Lacord, Y. Gruel, P. Bardos & Y. Lebranchu* 248

Lack of Interferon-γ Receptor does not Influence the Outcome of Infection in Murine *Schistosomiasis mansoni*. *A. A. Akhiani, N. Lycke, L.-Å. Nilsson, S. Olling & Ö. Ouchterlony* 257

Ig-Isotype Patterns of Primary and Secondary B Cell Responses to *Plasmodium Chabaudi Chabaudi* Correlate with IFN-γ and IL-4 Cytokine Production and with CD45RB Expression by $CD4^+$ Spleen Cells. *M. R. D'Império Lima, J. M. Alvarez, G. C. Furtado, T. L. Kipnis, A. Coutinho & P. Minóprio* 263

Wallaby Serum Amyloid A Protein: cDNA Cloning, Sequence and Evolutionary Analysis. *C. M. Uhlar, I. L. Black, D. C. Shields, C. M. Brack, G. Schreiber & A. S. Whitehead* 271

Intravenous Immunoglobulin (IVIg) Modulates the Expansion of $V\beta3^+$ and $V\beta17^+$ T Cells Induced by Staphylococcal Enterotoxin B Superantigen *In Vitro*. *V. Baudet, B. Hurez, C. Lapeyre, S. V. Kaveri & M. D. Kazatchkine* 277

Cancer Prevention by Adoptive Transfer of Antigen 60-Activated Immunocompetent Cells. *H. Maes & C. Cocito* 283

Isolation and Characterization of Porcine Mannan-Binding Proteins of Different Size and Ultrastructure. *P. Storgaard, E. Holm Nielsen, O. Andersen, E. Skriver, H. Mortensen, P. Højrup, G. Leslie, U. Holmskov & S.-E. Svehag* 289

Blood Leucocyte Subsets of the Rat: Expression of Adhesion Molecules and Localization within High Endothelial Venules. *J. Westermann, S. Walter, Y. Nagahori, C. Heerwagen, M. Miyasaka & R. Pabst* 297

Peripheral Blood Lymphocyte Adhesion Molecule Deployment in the Immune Response. *M. Pallis, R. A. Robins & R. J. Powell* 304

Human Autoantibodies Against C1q: Lack of Cross-Reactivity with the Collectins Mannan-Binding Protein, Lung Surfactant Protein A and Bovine Conglutinin. *U. Mårtensson, S. Thiel, J. C. Jensenius & A. G. Sjöholm* 314

Altered Allogeneic Response in Neonatally Anti-MHC Class I-Treated Mice . *S. Marušić-Galešić, K. Sparbier, N. Knezevic & P. Walden* 321

Standardization of a Flow Cytrometric Assay for Phagocyte Respiratory Burst Activity. *J. Vuorte, S.-E. Jansson & H. Repo* 329

CLINICAL IMMUNOLOGY. TNF Production from Peripheral Blood Mononuclear Cells in Diabetic Patients after Stimulation with Alginate and Lipopolysaccharide. *B. Kulseng, G. Skjåk-Bræk, I. Følling & T. Espevik* 335

SHORT PAPERS. Activation of Human Neutrophils Induced by Immune Complexes Prepared with Cationic and Anionic Fractions of Normal IgG Antibodies. *A. S. Trevani, G. Andonegui, C. Kempfer, E. Malchiodi & J. R. Geffner* 341

Oestrogen Treatment Depletes Extrathymic T Cells from Intestinal Lymphoid Tissues. *G. Boll & J. Reimann* 345

Letters to the Editor 351

Announcement 354

Volume 43, No. 4, April 1996

BASIC IMMUNOLOGY. The Interferon-α/β Responses of Mice to Herpes Simplex Virus Studied at the Blood and Tissue Level *In Vitro* and *In Vivo*. *M.-L. Eloranta, K. Sandberg & G. V. Alm* 355

C5b-8 Step Lysis of Swine Endothelial Cells by Human Complement and Functional Feature of Transfected CD59. *S. Miyagawa, S. Mikata, R. Shirakura, H. Matsuda, S. Nagasawa, A. Terado, M. Hatanaka, M. Matsumoto & T. Seya* 361

Triggering of Target of an Antiproliferative Antibody-1 (TAPA-1/CD81) Up-Regulates the Release of Tumour Necrosis Factor-α by the EBV-B Lymphoblastoid Cell Line JY. *M. Altomonte, R. Montagner, C. Pucillo & M. Maio* 367

Heterogenous Expression of the Related MBP70 and MPB83 Proteins Distinguish Various Substrains of *Mycobacterium bovis* BCG and *Mycobacterium tuberculosis* H37Rv. *H. G. Wiker, S. Nagai, R. G. Hewinson, W. P. Russell & M. Harboe* 374

Induction of Human Cytotoxic T Lymphocytes by Oxidized Low Density Lipoproteins. *R. Wu, R. Giscombe, G. Holm & A. K. Lefvert* 381

Heparin in Clinical Doses 'Primes' Granulocytes to Subsequent Activation as Measured by Myeloperoxidase Release. *V. Videm* 385

Differential Antigenic Stimulation Influences Cytokine Production Patterns in T Cells and $CD4^+$ Subpopulations. *M. Ebtekar & N. Khansari* 391

Humoral Immune Responses Against Particulate Bacterial Antigens are Dependent on Marginal Metallophilic Macrophages in the Spleen. *A. M. J. Buiting, Z. de Rover, G. Kraal & N. van Rooijen* 398

Decrease in cAMP Levels Promoted by CD48–CD2 Interaction Correlates with Inhibition of Apoptosis in B Cells. *E. Baixeras, E. García-Lozano & C. Martinez-A* 406

Anti-Oxidants Inhibit the Enhancement of the Immune Response Caused by Oil Adjuvants. *P. di Gianni, F. S. Minnucci, M. F. Alves Rosa, M. Vulcano & M. A. Isturiz* 413

Suppression of Tumour-Specific Cytotoxic T-Cell Responses Against the Syngeneic BALB/c Plasmacytoma ADJ-PC-5 by Tumour-Induced $CD8^+$ Regulatory T Cells Via IFN-γ. *H.-G. Pauels, C. Specht, C. Becker & E. Kölsch* 421

Adjuvant Properties of Montanide CSA 720 with a Recombinant HIV P17 *gag* Protein and Synthetic Peptide Antigens. *J. E. Kirkley, A. L. Goldstein & P. H. Naylor* 431

A Non-Competitive P55 TNF Receptor Antibody Enhances the Specific Activity of Lymphotoxin-α. *A. E. Medvedev, A. Laegreid, A. Sundan & T. Espevik* 439

Inhibition by Rapamycin in P-Glycoprotein 170-Mediated Export from Normal Lymphocytes. *B. R. Yacyshyn, M. B. Bowen-Yacyshyn & L. M. Pilarski* 449

CLINICAL IMMUNOLOGY. Secretion of Tumour Necrosis Factor α and Lymphotoxin α in Relation to Polymorphisms in the TNF Genes and HLA-DR Alleles. Relevance for Inflammatory Bowel Disease. *G. Bouma, J. B. A. Crusius, M. Oudkerk Pool, J. J. Kolkman, B. M. E. von Blomberg, P. J. Kostense, M. J. Giphart, G. M. Th. Schreuder, S. G. M. Meuwissen & A. S. Peña* 456

Recognition of B-Cell Epitopes of the 65 kDa HSP in Behçet's Disease. *H. Direskeneli, A. Hasan, T. Shinnick, Y. Mitzushima, R. Van der Zee, F. Fortune, M. R. Stanford & T. Lehner* 464

Erratum 472

Erratum 474

Volume 43, No. 5, May 1996

REVIEW. Peptide Antibiotics: Holy or Heretic Grails of Innate Immunity? *H. G. Boman* 475

BASIC IMMUNOLOGY. Cloning and Sequencing of an MPB70 Homologue Corresponding to MPB83 from *Mycobacterium bovis* BCG. *T. Matsuo, H. Matsuo, N. Ohara, S. Matsumoto, H. Kitaura, A. Mizuno & T. Yamada* 483

Molecular Characterization of MPT83: a Seroreactive Antigen of *Mycobacterium tuberculosis* with Homology to MPT70. *R. G. Hewinson, S. Ll. Michell, W. P. Russell, R. A. McAdam & W. R. Jacobs Jr* 490

Augmented Antigen Presentation by Mouse Ia+ T Clone Cells BK-BI–2.6.O4.1 Mediated by Transferrin Receptors. *U. Tschoetschel, K. L. McCoy & A. B. Reske-Kunz* 500

Enhanced T Lymphocyte Expression of LFA-1, ICAM-1, and the TNF Receptor Family Member OX40 in $HgCl_2$-Induced Systemic Autoimmunity. *A. Roos, N. Claessen, J. J. Weening & J. Aten* 507

T-Cell Receptor Diversity Expressed by $CD4^+$ T Cells Activated by Primary Allogeneic HLA-DR Stimulation: Estimation of the Degree of CDR3 Diversity. *K. Onda, N. Kashiwagi & F. Obata* 519

Establishment and Characterization of RAG-2 Deficient Non-Obese Diabetic Mice. *I. Söderström, M.-L. Bergman, F. Colucci, K. Lejon, I. Bergqvist & D. Holmberg* 525

Identification and Characterization of Specific Receptor for Interleukin-8 from the Surface of Human Monocytes. *B. Bishayi & A. K. Samanta* 531

Multiple Levels of MHC Class I Down-Regulation by ras Oncogenes. *S. Lohmann, U. Wollscheid, C. Huber & B. Seliger* 537

In Vivo Activation of T-Cell Induction into the Primed Phenotype and Programmed Cell Death by Staphylococcal Enterotoxin B. *L. S. Aroeira, M. C. Moreno & C. Martinez-A* 545

Experimental AA-Amyloidosis in Mice is Inhibited by Treatment with the Anti-Rheumatic Drug Tenidap. *A. Husebekk & T. Stenstad* 551

Mapping of the Epitope Recognized by Non-Specific Cytotoxic Cells: Determination of the Fine Specificity Using Synthetic Peptides. *D. L. Evans, J. H. Leary III, Z. Weisman, J. Warren & L. Jaso-Friedmann* 556

CLINICAL IMMUNOLOGY. Brush Border Enzymes in Evaluation of Acute Small Bowel Rejection. *P. Kuusanmäki, J. Lauronen, T. Paavonen, M. Pakarinen, E. Savilahti, P. Häyry & J. Halttunen* 566

Inhibition of Immunoglobulin Production *In Vitro* by IgG and $F(ab')_2$ Fragments, but not by the Fc Portion. *S. Klaesson, L. Tammik, L. Markling, I. Lundkvist & O. Ringdén* 574

Characterization of Autoantibodies to Natural Killer Cells in HIV-Infected Patients. *C. Müller, M. Szangolies, S. Kukel, M. Kiehl, M. Sorice, T. Grigg, L. Lenti & R. Bauer* 583

SHORT PAPER. Different Percentages of Peripheral Blood $\gamma\delta^+$ T Cells in Healthy Individuals from Different Areas of the World. *S. Esin, M. Shigematsu, S. Nagai, A. Eklund, H. Wigzell & J. Grunewald* 593

Volume 43, No. 6, June 1996

REVIEW. Co-Stimulation and Co-Inhibition: Equal Partners in Regulation. *N. R. StC. Sinclair & C. C. Anderson* 597

BASIC IMMUNOLOGY. Murine Acariasis. II. Immunological Dysfunction and Evidence for Chronic Activation of Th-2 Lymphocytes. *P. Jungmann, A. Freitas, A. Bandeira, A. Nobrega, A. Coutinho, M.-A. Marcos & P. Minoprio* 604

Indirect Effects are Independent of the Way of Tolerance Induction. *C. R. Carvalho & N. M. Vaz* 613

Heterogeneous Expression of Recombination Activating Genes and Surface CD5 in $CD3^{low}$ $CD4^+$ $CD8^+$ Thymocytes. *M. Sheard, K. Sugaya, M. Furuta, S. Tsuda & Y. Takahama* 619

Immunophenotyping of Human Bone Marrow-Derived Macrophages. *M. Köller, M. Willheim, W. Krugluger, M. Lurz, P. Höcker, O. Förster & G. Boltz-Nitulescu* 626

Fibronectin Co-Stimulates via the $\alpha_5\beta_1$ Receptor IL-2, IL-4 Production by Splenic, Granuloma Lymphocytes of *Schistosoma mansoni* Infected Mice. *Y. Zhu & D. L. Boros* 633

Activation of the Protein Kinase A Increases the DNA-Binding and Transcriptional Activity of c-Rel in T Cells. *N. Lahdenpohja, T. Henttinen & M. Hurme* 640

Activation of Cloned Human $CD4^+$ Th_1 and Th_2 Cells by Blood Dendritic Cells. *R. Roth & H. L. Spiegelberg* 646

CLINICAL IMMUNOLOGY. The Effects of Mitogens, IL-2 and Anti-CD3 Antibody on the T-Cell Receptor $V\beta$ Repertoire. *J. Jason & K. L. Inge* 652

Human T-Cell Epitopes on the *Mycobacterium tuberculosis* Secreted Protein MPT64. *P. W. Roche, C. G. Feng & W. J. Britton* 663

Antibodies Reactive to *Trypanosoma cruzi* Epimastigotes or Amastigotes Express Different Idiotypic Patterns if from Patients with Different Clinical Forms of Chagas' Disease. *R. Ribeiro-Rodrigues, D. G. Colley, R. Correa-Oliveira & C. E. Carter* 671

Serum Level of Interleukin-4 in Patients with Perennial Allergic Rhinitis During Allergen-Specific Immunotherapy. *Y. Ohashi, Y. Nakai, H. Okamoto, Y. Ohno, H. Sakamoto, Y. Sugiura, Y. Kakinoki, A. Tanaka, K. Kishimoto, Y. Washio & M. Hayashi* 680

SHORT PAPERS. Down-Regulation of Anti-CD3 Antibody-Induced IL-4 Production by Bovine Caseins Hydrolysed with *Lactobacillus* GG-Derived Enzymes. *Y. Sütas, M. Hurme & E. Isolauri* 687

Soluble CD4: a Link Between Specific Immune Mechanisms and Non-Specific Inflammatory Responses? *H. Goto & M. Gidlund* 690

Abstracts from the XXVIIth Meeting of the Scandinavian Society for Immunology, Turku, Finland, 24–27 May 1996 693

Author Index for the Abstracts from the XXVIIth Meeting 741

Author Index for Volume 43 745